

WHAT IS CLAIMED IS:

1. A software system supporting distributed web
5 applications between a client and a server, wherein the software system comprises:

commands, comprising executable code and associated
data;

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server pages, comprising executable code and associated
data; and

a common cache within the server, comprising:

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a first portion, in which code and data associated
with commands may be stored;

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a second portion, in which code and data
associated with server pages may be stored; and

a third portion, in which code and data associated
with either commands or server pages may be stored.

- 25 2. The software system as recited in claim 1, wherein commands and server pages may be requested by the client.

3. The software system as recited in claim 1, wherein
commands and server pages may execute in the server.

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4. The software system as recited in claim 1, wherein the
cache has an associated cache ID, and code and data
associated with commands or server pages stored in the third
portion of the common cache comprises a hash table, which
35 maps cache IDs onto cache entries.

5. The software system as recited in claim 1, wherein code and data associated with commands or server pages stored in the third portion of the common cache further comprises a
5 Least Recently Used (LRU) mechanism, which defines how long commands and server pages may remain in the cache without being requested by the client, before being removed.

6. The software system as recited in claim 5, wherein code
10 and data associated with commands or server pages stored in the third portion of the common cache further comprises a list of data IDs corresponding to data records upon which said commands or server pages are dependent.

7. The software system as recited in claim 6, wherein code
15 and data associated with commands or server pages stored in the third portion of the common cache further comprises a mutex mechanism, which may allow a web application exclusive access to said commands or server pages.

8. The software system as recited in claim 7, wherein code
20 and data associated with commands or server pages stored in the third portion of the common cache further comprises cluster services, which are used by the server to send
25 messages to other servers.

9. The software system as recited in claim 8, wherein code
and data associated with commands and server pages stored in the third portion of the common cache further comprises a
30 pin mechanism, which prevents said commands and server pages from being removed from the common cache by the LRU mechanism.

10. The software system as recited in claim 9, wherein code and data associated with commands and server pages stored in the third portion of the common cache further comprises a time limit, which defines how long said commands and server
5 pages may remain in the cache before being updated.

11. The software system as recited in claim 10, wherein code and data associated with commands and server pages stored in the third portion of the common cache further
10 comprises a batch update mechanism, which globally updates or invalidates a plurality of commands or server pages in the common cache.

12. The software system as recited in claim 11, wherein
15 associated with each of the commands and server pages within the cache is a unique template, and wherein code and data associated with an commands and server pages stored in the third portion of the common cache further comprise a list of template dependencies, which matches commands and server
20 pages in the cache with their templates.

13. The software system as recited in claim 1, further comprising an object-oriented software system.

25 14. The software system as recited in claim 1, wherein the server comprises a Java Virtual Machine (JVM).

15. The software system as recited in claim 1, wherein server pages comprise Java Server Pages (JSPs).

30 16. The software system as recited in claim 1, wherein requested commands not found in the cache of the server may be requested from a second server.

17. The software system as recited in claim 16, wherein requested commands not found in the cache of the second server are executed by the second server, stored in its cache, and returned to the first server.

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18. The software system as recited in claim 1, wherein requested server pages not found in the cache of the first server may be requested from the second server.

10 19. The software system as recited in claim 18, wherein requested server pages not found in the cache of the second server are executed by the second server, stored in its cache, and returned it to the first server.

15 20. A method for storing executable code and data associated with commands and server pages in a common cache, comprising:

20 allocating a first portion of the common cache, in which code and data associated only with commands may be stored;

25 allocating a second portion of the common cache, in which code and data associated only with server pages may be stored; and

30 allocating a third portion of the common cache, in which code and data associated with both commands and server pages may be stored.

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21. The method as recited in claim 20, wherein server pages comprise Java Server Pages (JSPs).

22. A computer product, comprising a web server and a software system, wherein the web server includes a

processor, memory, mass storage and a network interface, and the software system is adapted to permit storing executable code and data associated with commands and server pages in a common cache.

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23. A computer program product in a computer readable medium for use in storing executable code and data associated with commands and server pages in a common cache, the computer program product comprising:

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instructions for allocating a first portion of the common cache, in which code and data associated only with commands may be stored;

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instructions for allocating a second portion of the common cache, in which code and data associated only with server pages may be stored; and

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instructions for allocating a third portion of the common cache, in which code and data associated with both commands and server pages may be stored

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24. A system including processor and memory for storing executable code and data associated with commands and server pages in a command cache, comprising:

a common cache;

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means for allocating a first portion of the common cache, in which code and data associated only with commands may be stored;

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means for allocating a second portion of the common cache, in which code and data associated only with server pages may be stored; and

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Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq. km)	Urban population density (per sq. km)
Algeria	1975	10.5	4.5	42.9	100	222
Algeria	1980	11.5	5.5	47.8	110	250
Algeria	1985	12.5	6.5	51.6	120	278
Algeria	1990	13.5	7.5	55.5	130	306
Algeria	1995	14.5	8.5	58.6	140	334
Algeria	2000	15.5	9.5	61.3	150	362
Algeria	2005	16.5	10.5	63.6	160	390
Algeria	2010	17.5	11.5	65.7	170	418
Algeria	2015	18.5	12.5	67.6	180	446
Algeria	2020	19.5	13.5	69.2	190	474
Algeria	2025	20.5	14.5	70.7	200	502
Algeria	2030	21.5	15.5	72.1	210	530
Algeria	2035	22.5	16.5	73.3	220	558
Algeria	2040	23.5	17.5	74.5	230	586
Algeria	2045	24.5	18.5	75.5	240	614
Algeria	2050	25.5	19.5	76.5	250	642
Algeria	2055	26.5	20.5	77.4	260	670
Algeria	2060	27.5	21.5	78.2	270	698
Algeria	2065	28.5	22.5	78.9	280	726
Algeria	2070	29.5	23.5	79.7	290	754
Algeria	2075	30.5	24.5	80.3	300	782
Algeria	2080	31.5	25.5	81.0	310	810
Algeria	2085	32.5	26.5	81.6	320	838
Algeria	2090	33.5	27.5	82.1	330	866
Algeria	2095	34.5	28.5	82.6	340	894
Algeria	2100	35.5	29.5	83.1	350	922
Algeria	2105	36.5	30.5	83.6	360	950
Algeria	2110	37.5	31.5	84.0	370	978
Algeria	2115	38.5	32.5	84.4	380	1006
Algeria	2120	39.5	33.5	84.8	390	1034
Algeria	2125	40.5	34.5	85.2	400	1062
Algeria	2130	41.5	35.5	85.5	410	1090
Algeria	2135	42.5	36.5	85.9	420	1118
Algeria	2140	43.5	37.5	86.2	430	1146
Algeria	2145	44.5	38.5	86.5	440	1174
Algeria	2150	45.5	39.5	86.8	450	1202
Algeria	2155	46.5	40.5	87.1	460	1230
Algeria	2160	47.5	41.5	87.4	470	1258
Algeria	2165	48.5	42.5	87.7	480	1286
Algeria	2170	49.5	43.5	88.0	490	1314
Algeria	2175	50.5	44.5	88.3	500	1342
Algeria	2180	51.5	45.5	88.5	510	1370
Algeria	2185	52.5	46.5	88.8	520	1398
Algeria	2190	53.5	47.5	89.0	530	1426
Algeria	2195	54.5	48.5	89.2	540	1454
Algeria	2200	55.5	49.5	89.4	550	1482
Algeria	2205	56.5	50.5	89.6	560	1510
Algeria	2210	57.5	51.5	89.8	570	1538
Algeria	2215	58.5	52.5	90.0	580	1566
Algeria	2220	59.5	53.5	90.2	590	1594
Algeria	2225	60.5	54.5	90.4	600	1622
Algeria	2230	61.5	55.5	90.6	610	1650
Algeria	2235	62.5	56.5	90.8	620	1678
Algeria	2240	63.5	57.5	91.0	630	